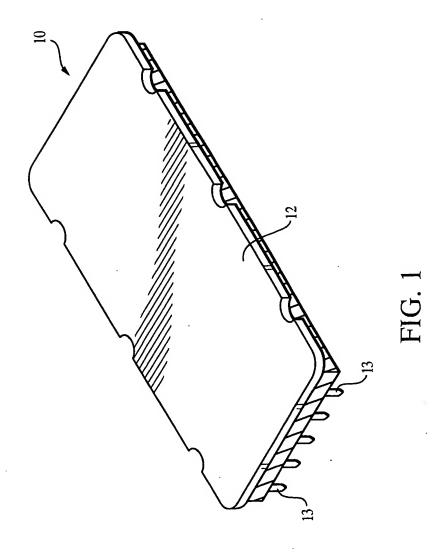
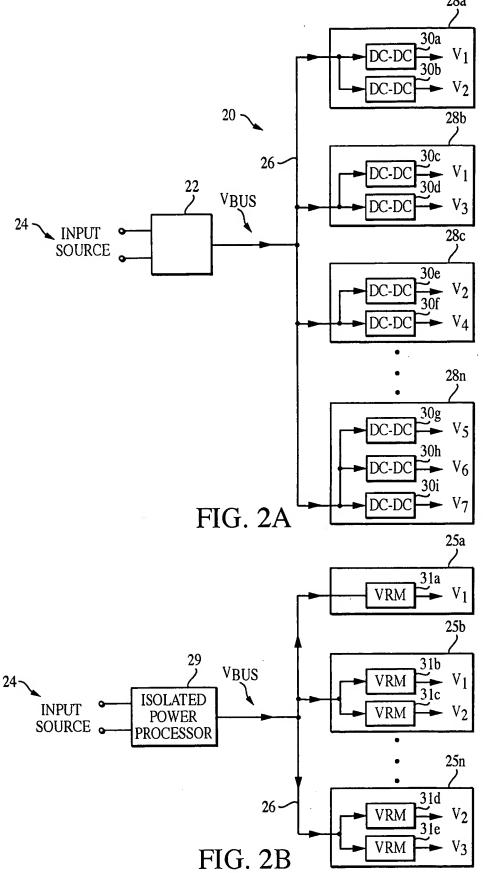
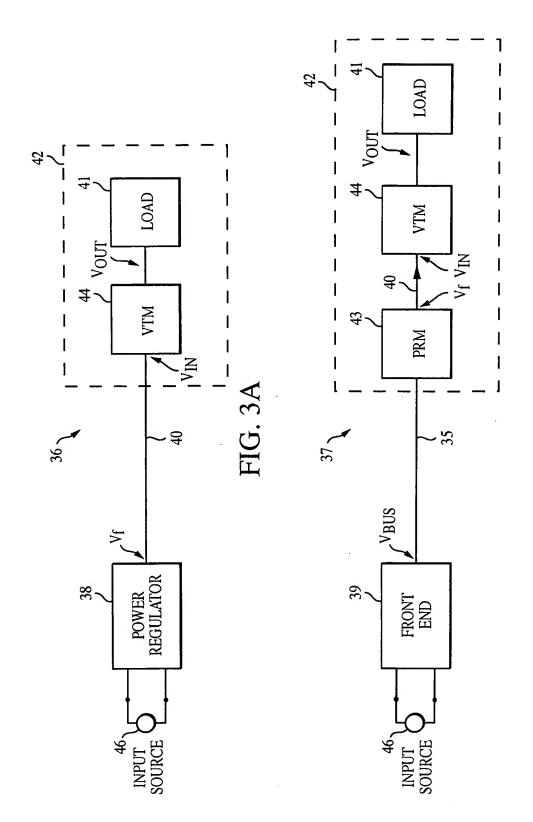
Page 1 of 59

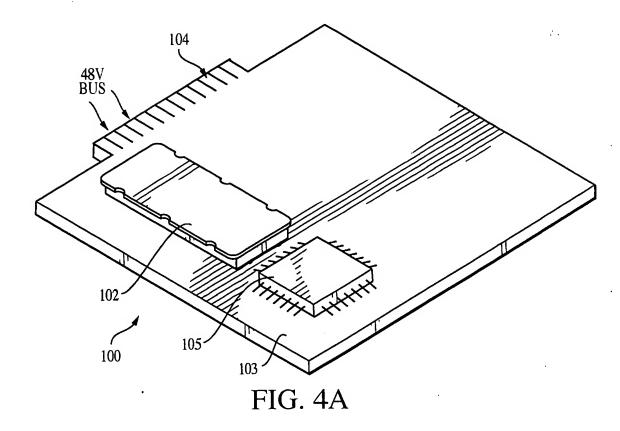


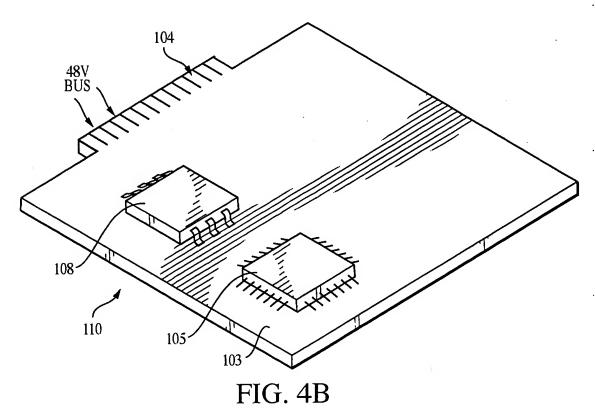
Page 2 of 59 Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli OUTPUT RESISTANCE MODULATION IN POWER CONVERTERS 28a 30a 28b 30c 26~



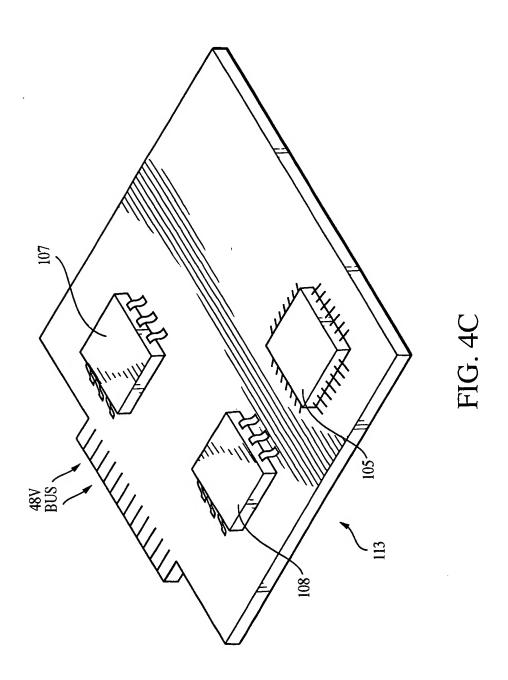


Page 4 of 59





Page 5 of 59



Page 6 of 59

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

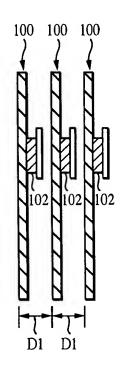


FIG. 5A

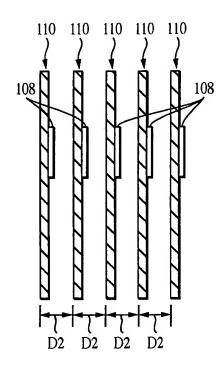
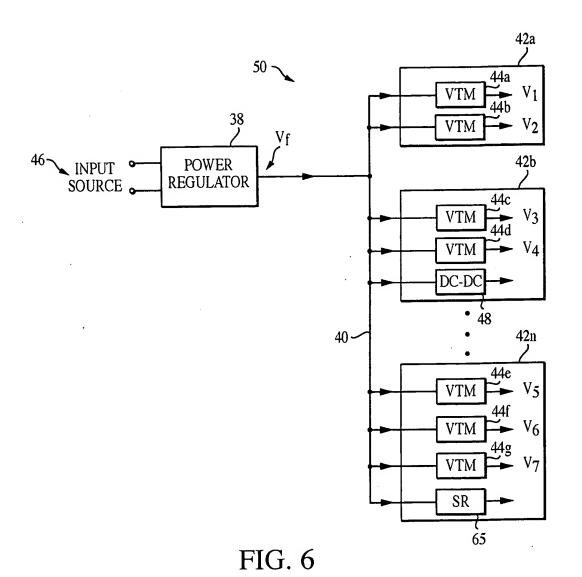


FIG. 5B

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER



Page 8 of 59

Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

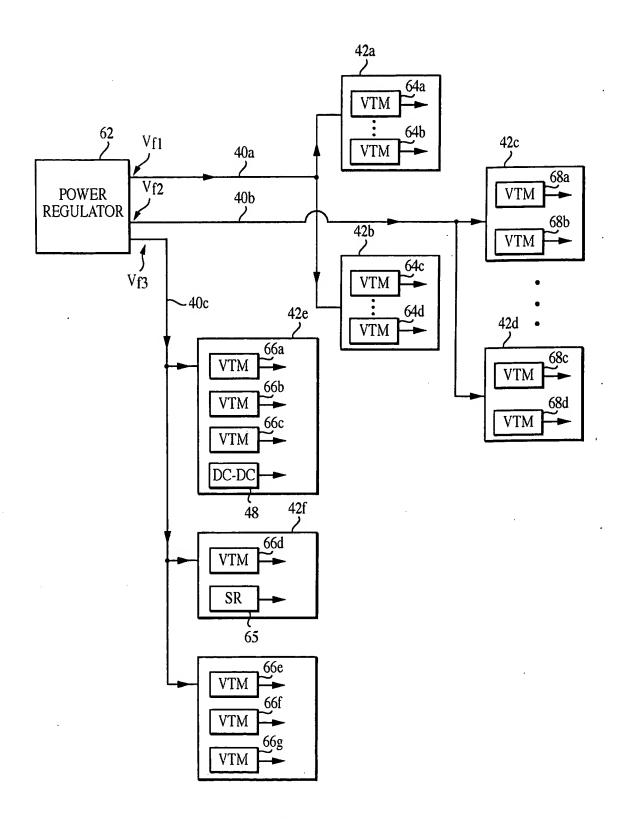


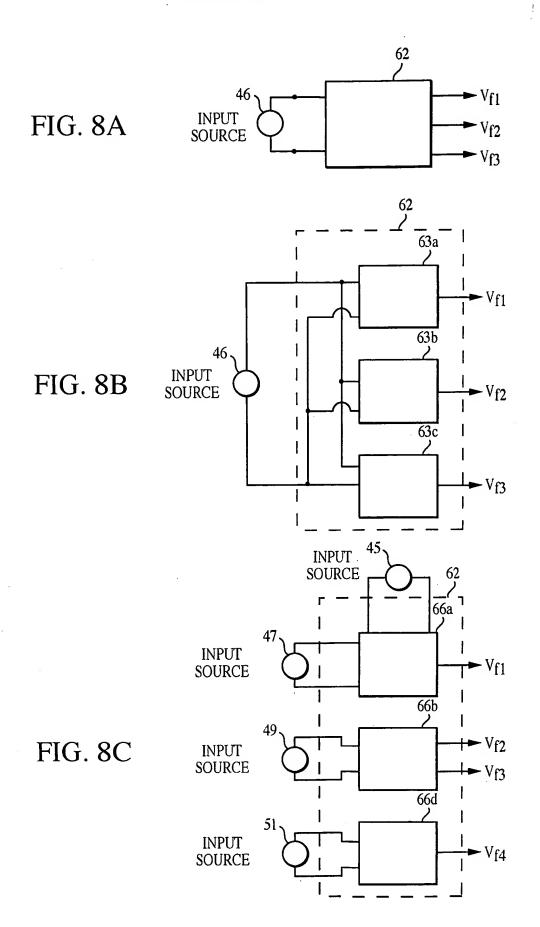
FIG. 7

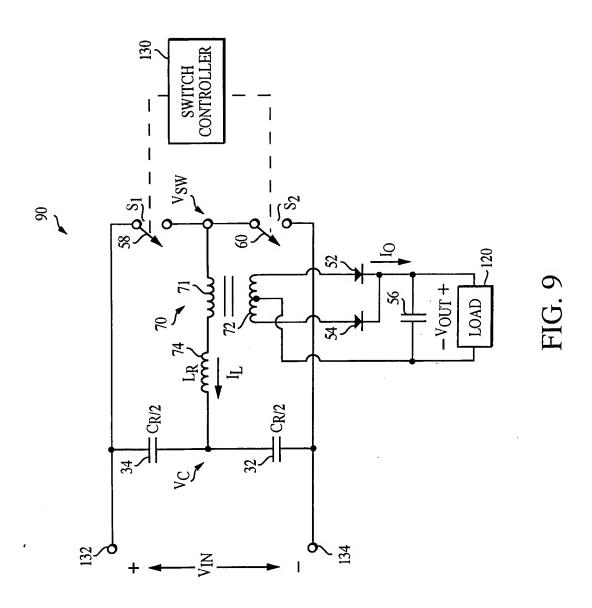
Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

CONVERTERS

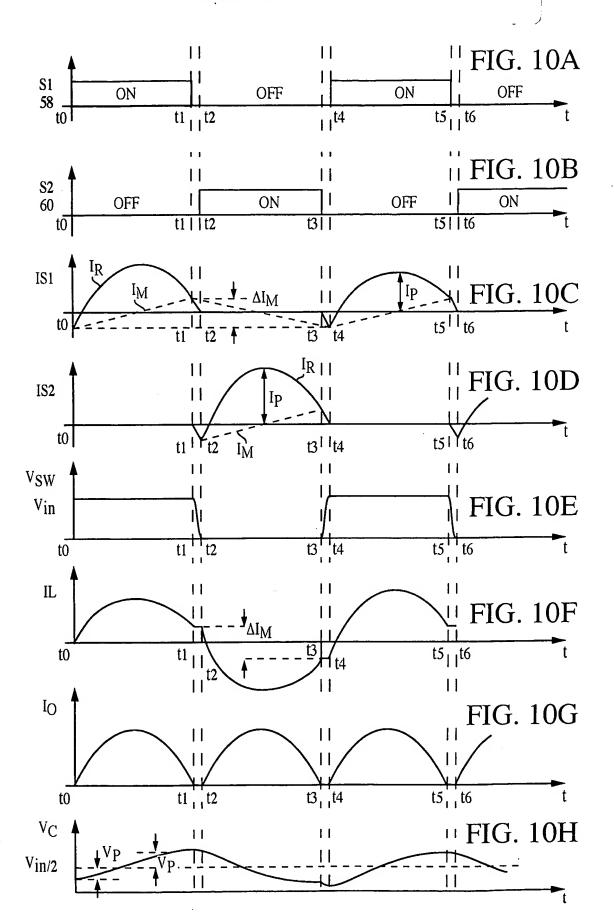
ţ





Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER



Page 12 of 59

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

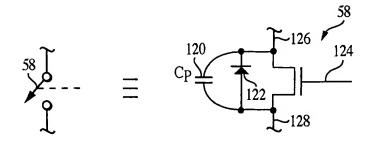


FIG. 11

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

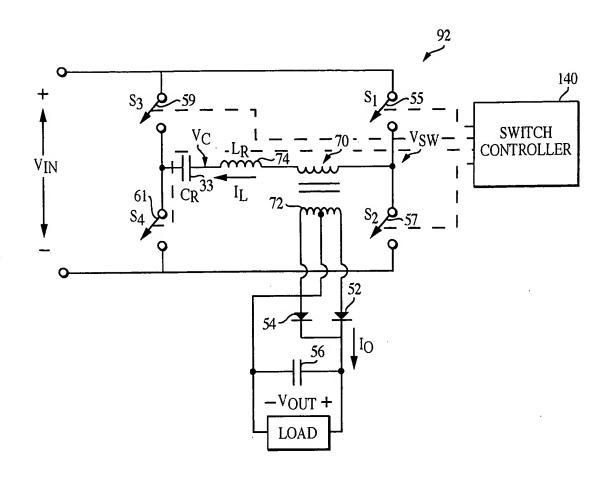


FIG. 12

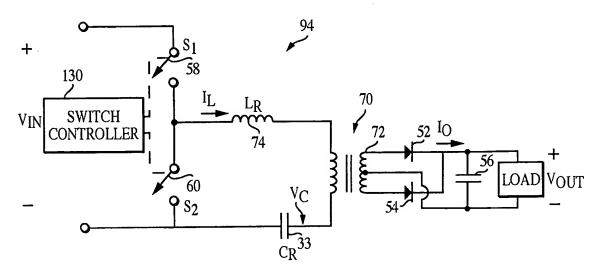


FIG. 13

Page 14 of 59

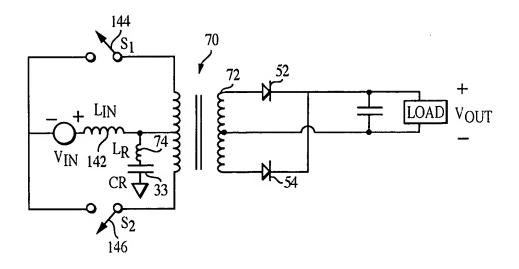


FIG. 14

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

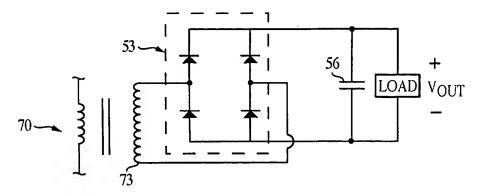


FIG. 15A

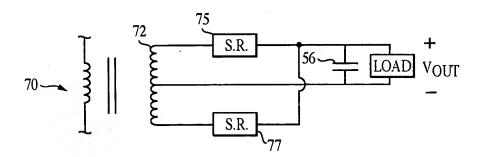
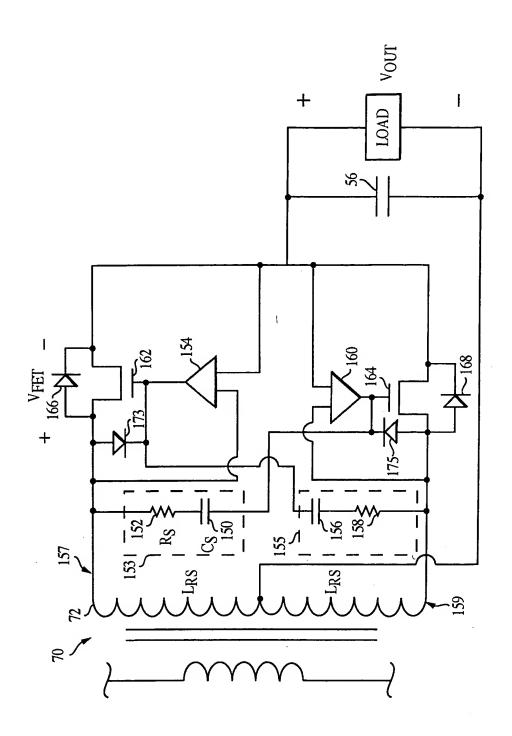
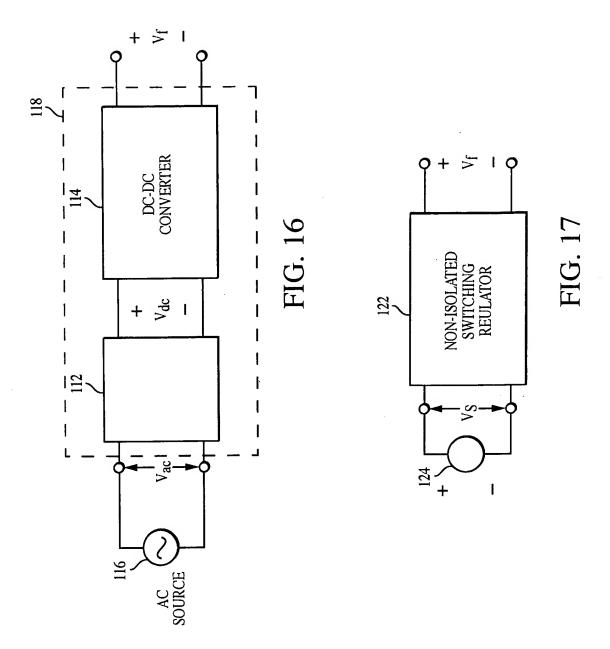
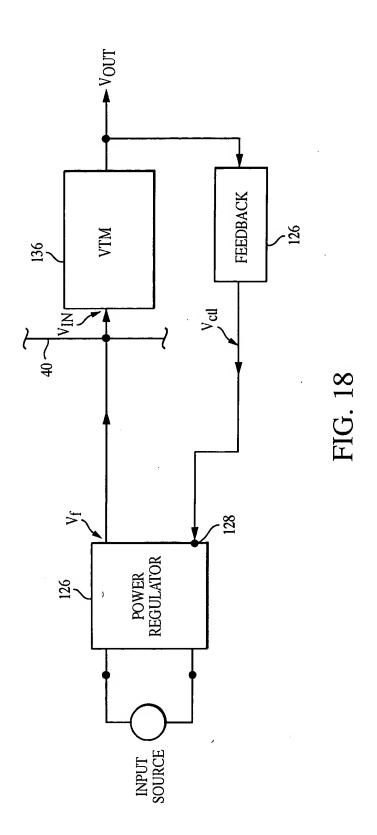
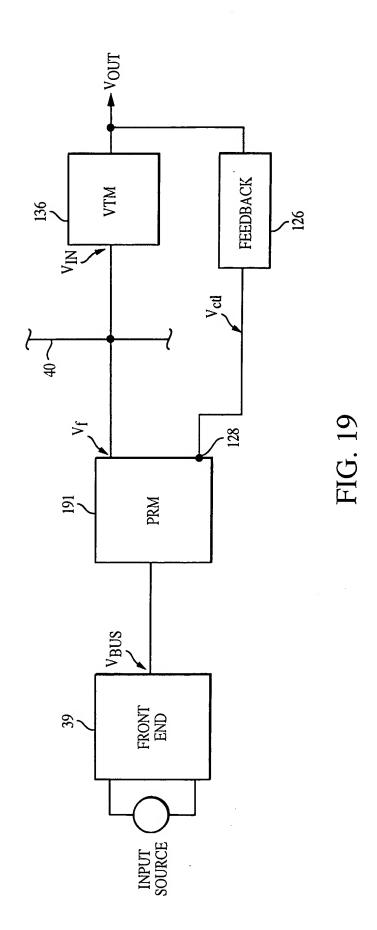


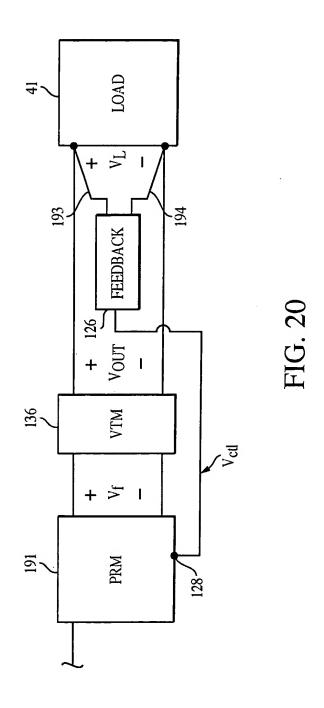
FIG. 15B











Matter No.: 00614-136004 Page 21 of 59

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER
CONVERTERS

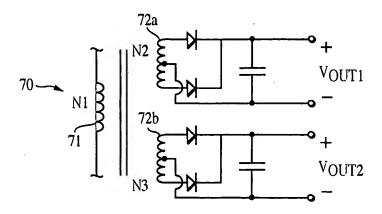
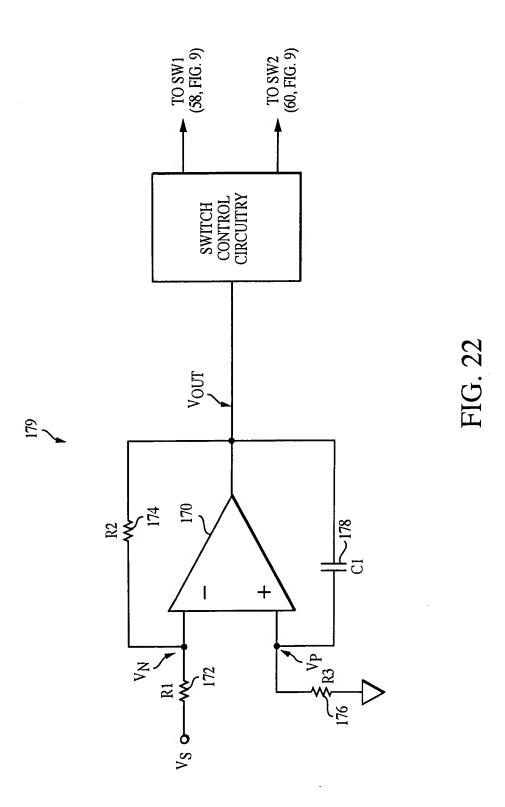
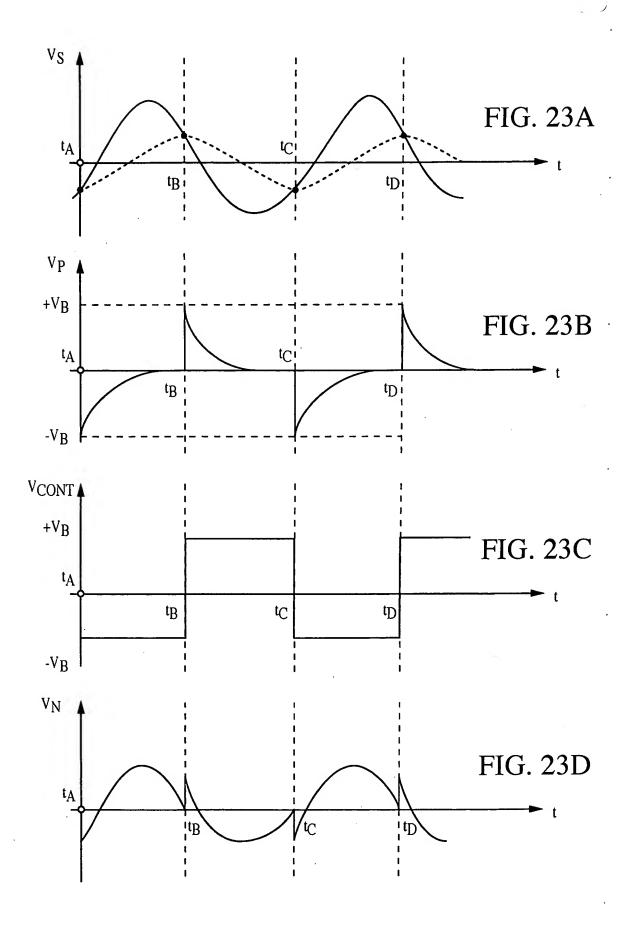


FIG. 21



Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER



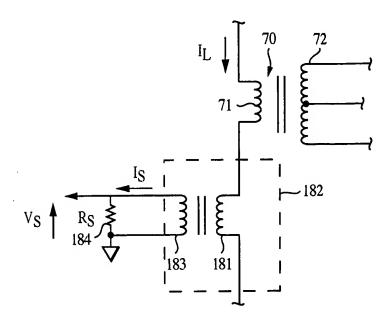
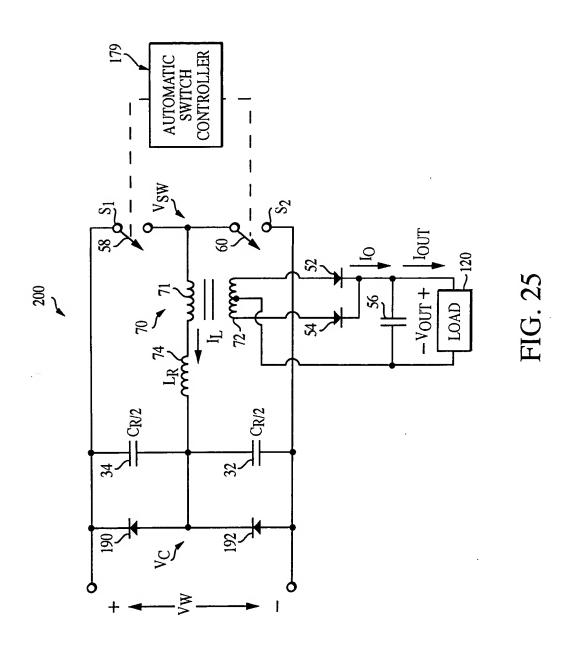


FIG. 24



Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

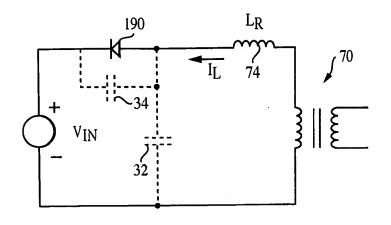
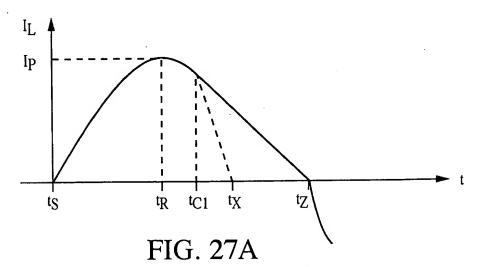


FIG. 26



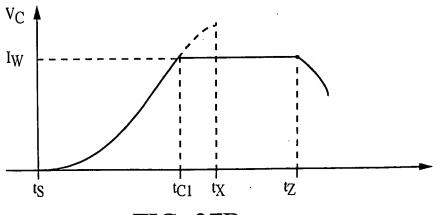


FIG. 27B

Page 27 of 59

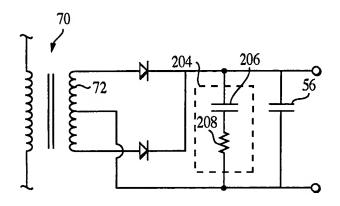


FIG. 28

Page 28 of 59

Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

CONVERTERS

BUCK REGULATED SINE AMPLITUDE CONVERTER

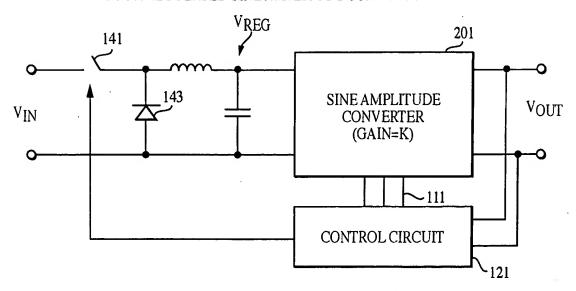


FIG. 29A

BOOST REGULATED SINE AMPLITUDE CONVERTER

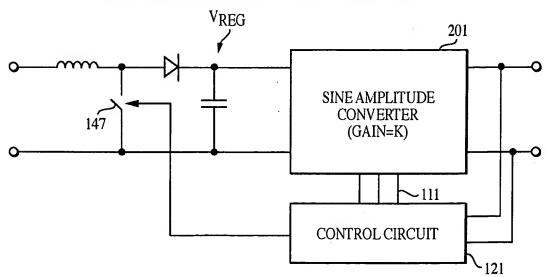
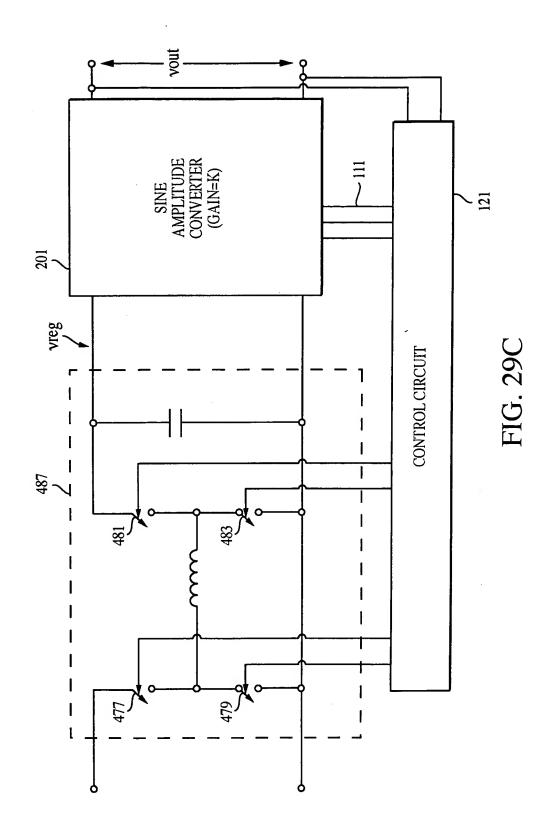


FIG. 29B



Page 30 of 59

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

CONVERTERS

BOOT STRAP REGULATED DC-DC CONVERTER

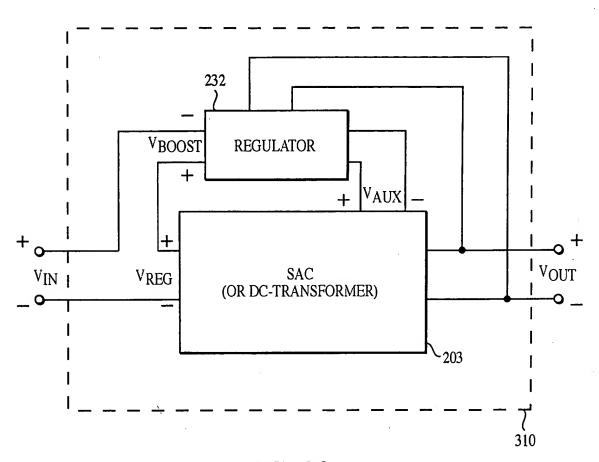


FIG. 30

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER
CONVERTERS

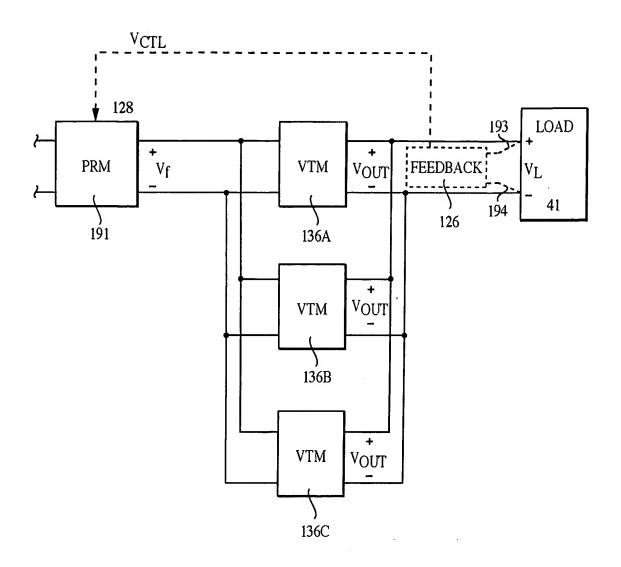
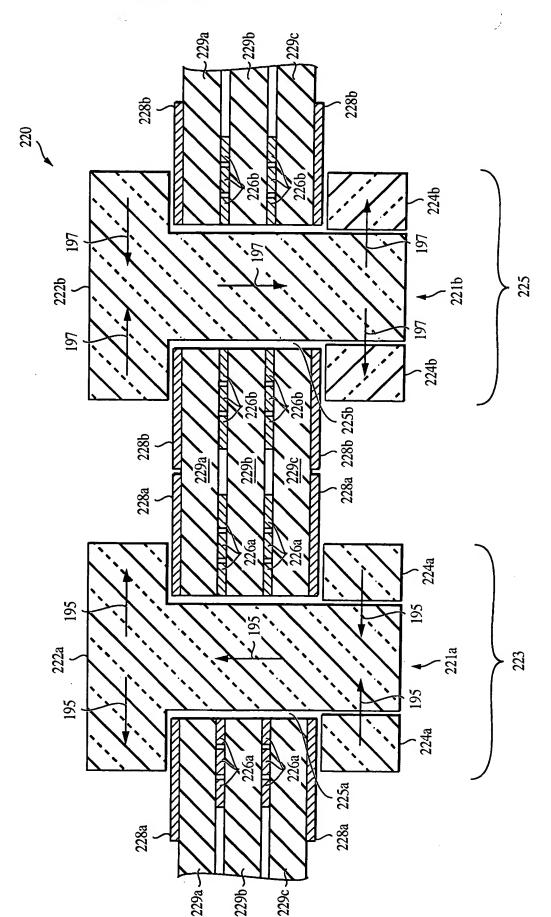


FIG. 31



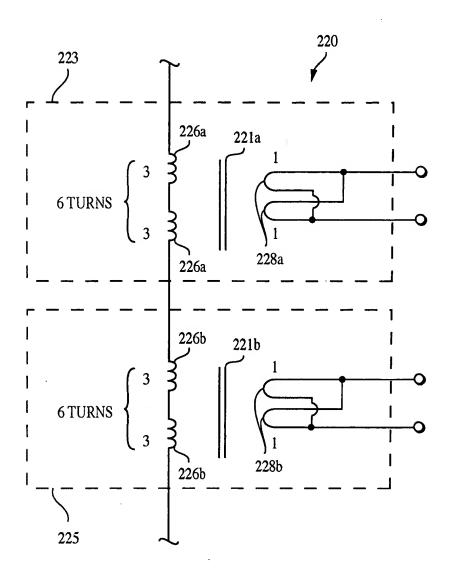


FIG. 33

Matter No.: 00614-136004

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

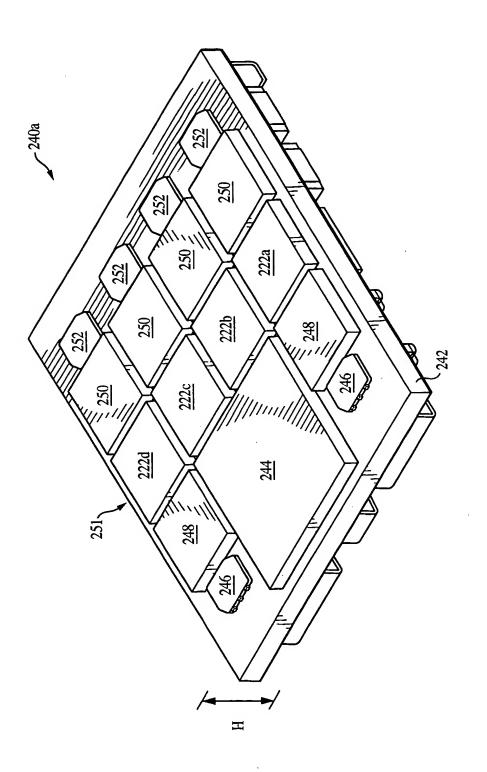
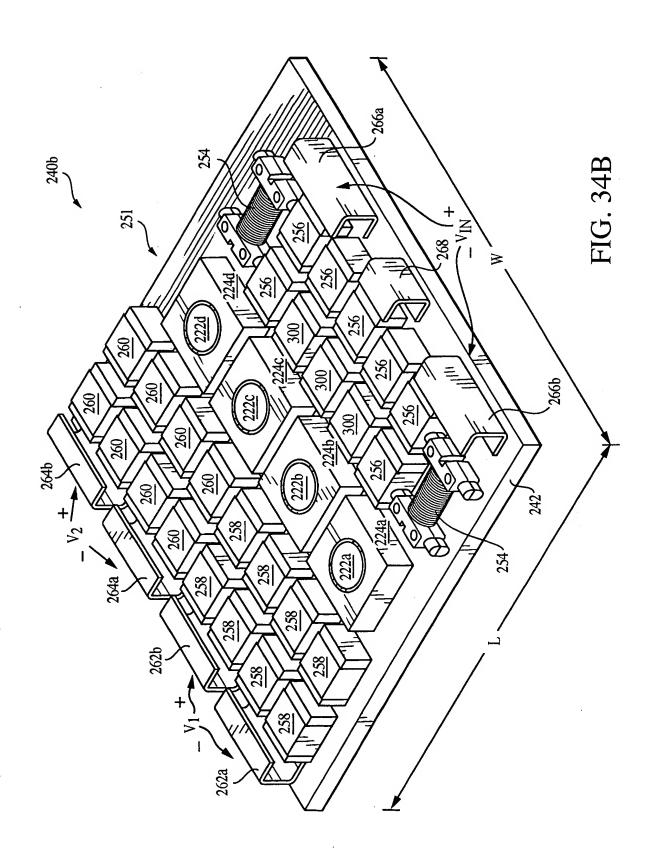


FIG. 34A

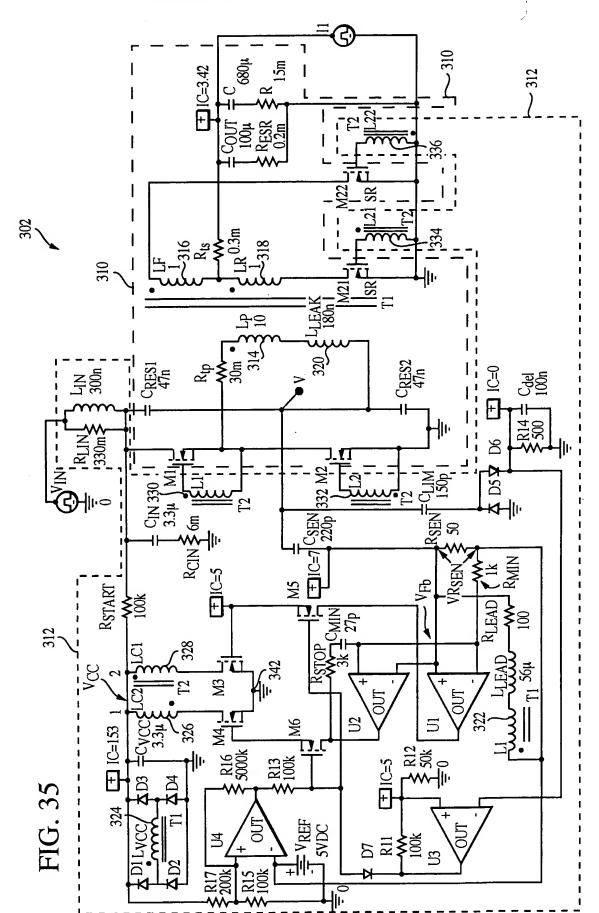
Page 35 of 59

Matter No.: 00614-136004 Pag Applicant(s): Patrizio Vinciarelli OUTPUT RESISTANCE MODULATION IN POWER



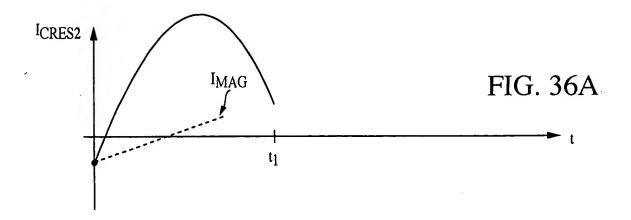
Matter No.: 00614-136004

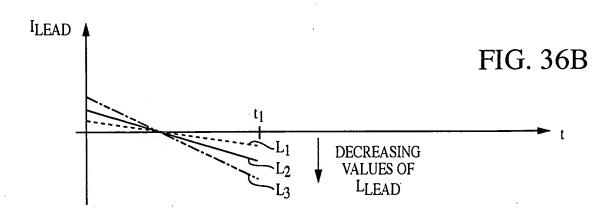
Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

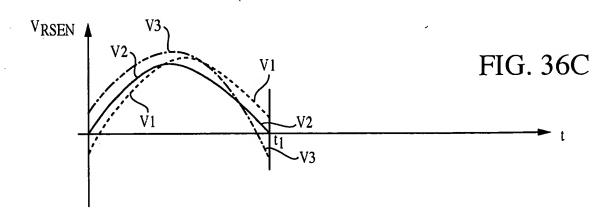


Page 37 of 59

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER
CONVERTERS



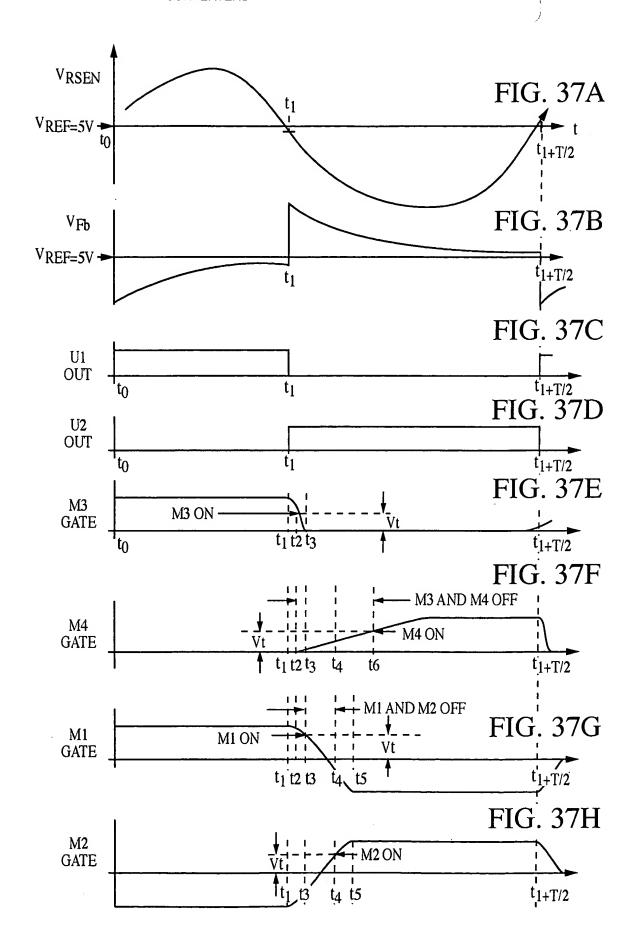




Page 38 of 59

Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER



Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

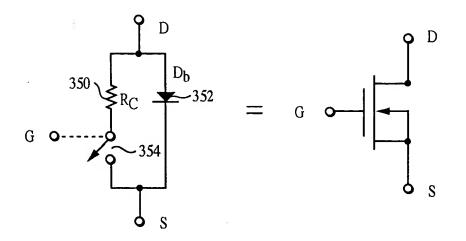


FIG. 38

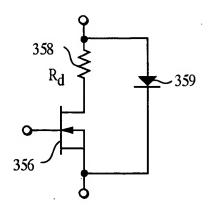


FIG. 39A

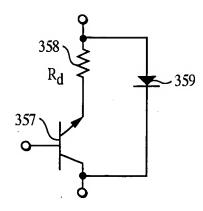
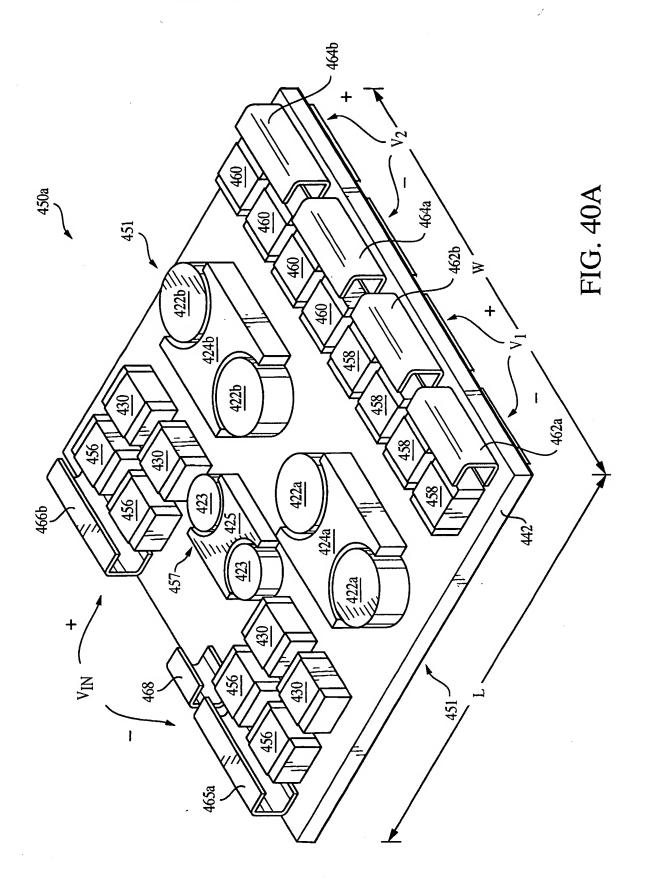
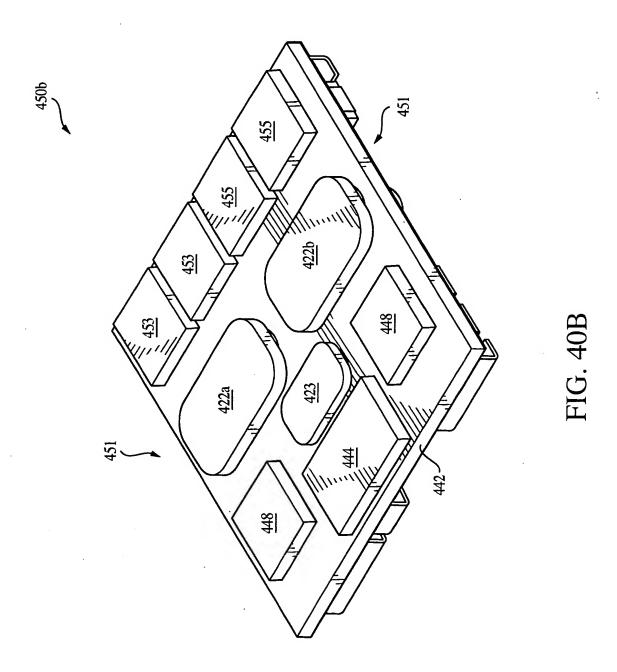


FIG. 39B

Page 40 of 59





Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

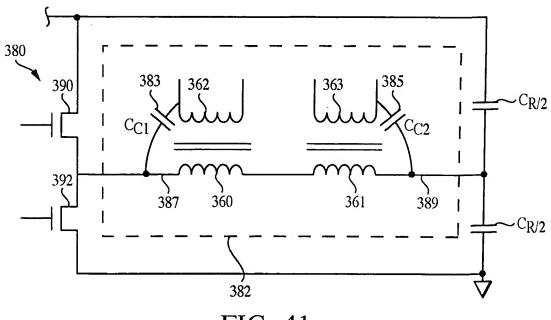


FIG. 41

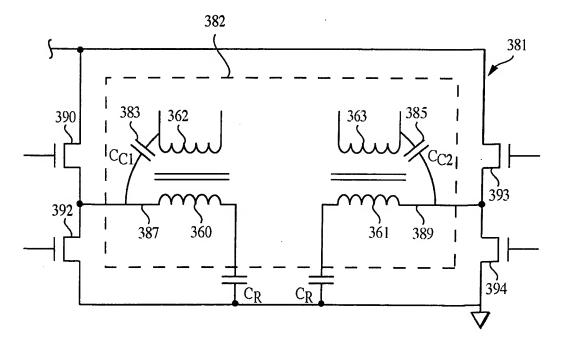


FIG. 42

Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

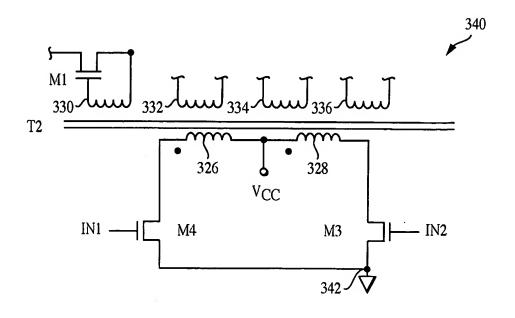


FIG. 43

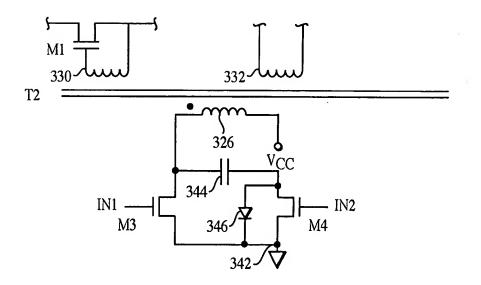


FIG. 44

Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER

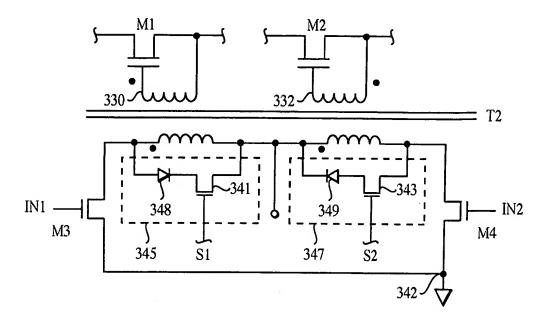
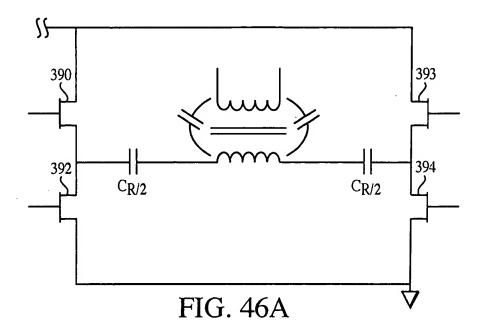
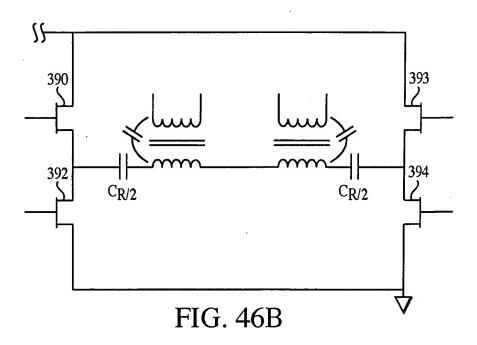


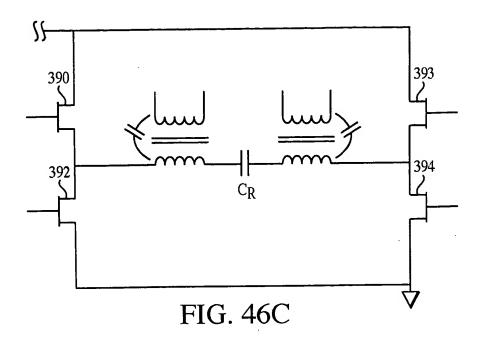
FIG. 45

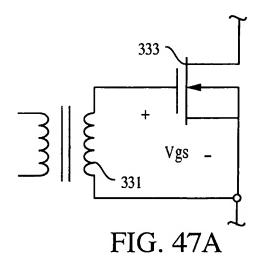
Applicant(s): Patrizio Vinciarelli
OUTPUT RESISTANCE MODULATION IN POWER
CONVERTERS





Page 46 of 59





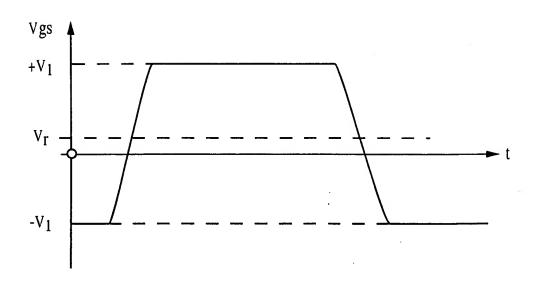


FIG. 47B

Page 48 of 59

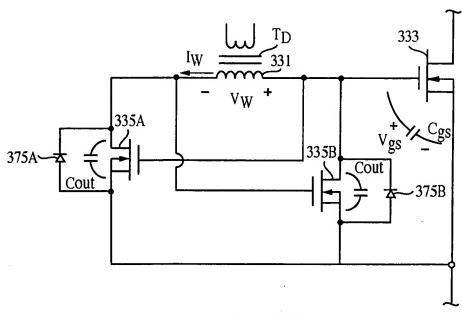
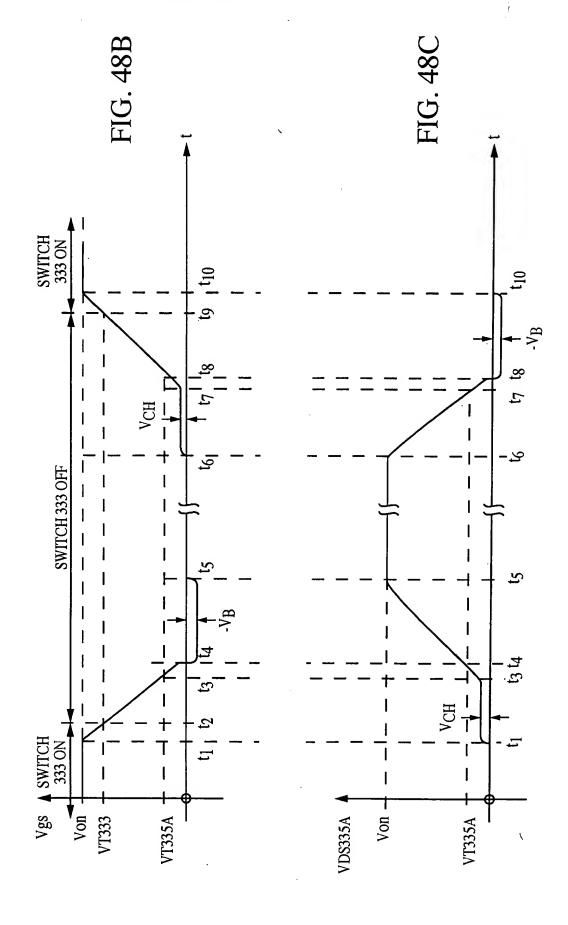
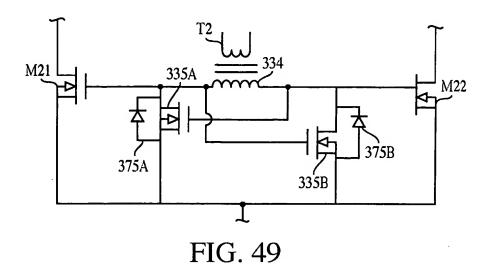
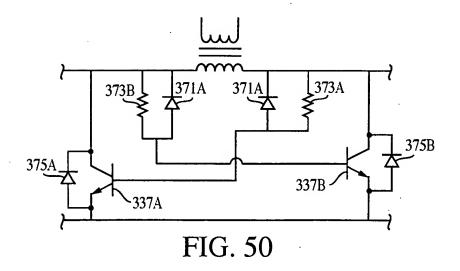
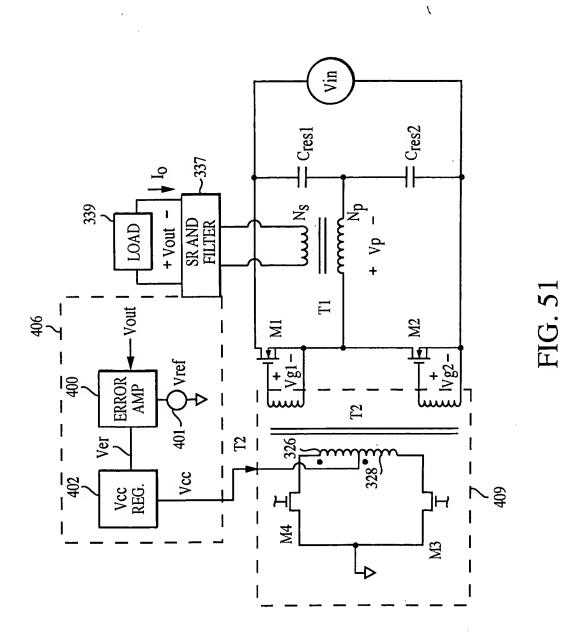


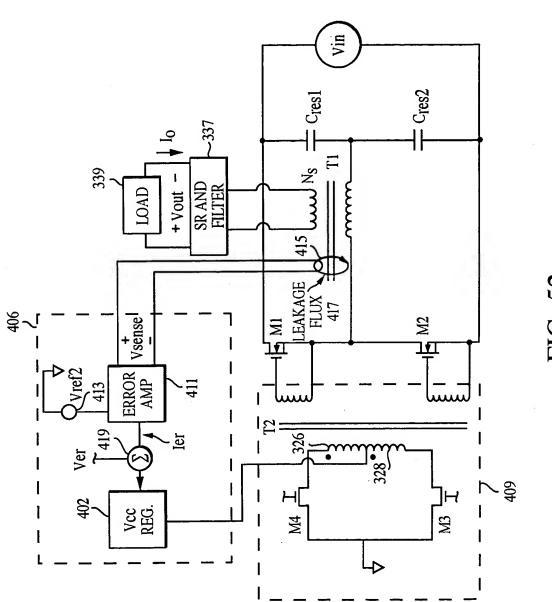
FIG. 48A

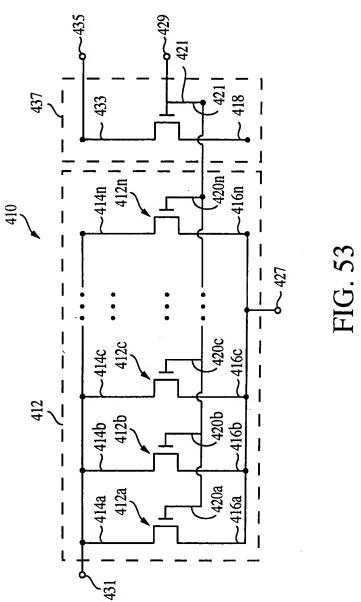


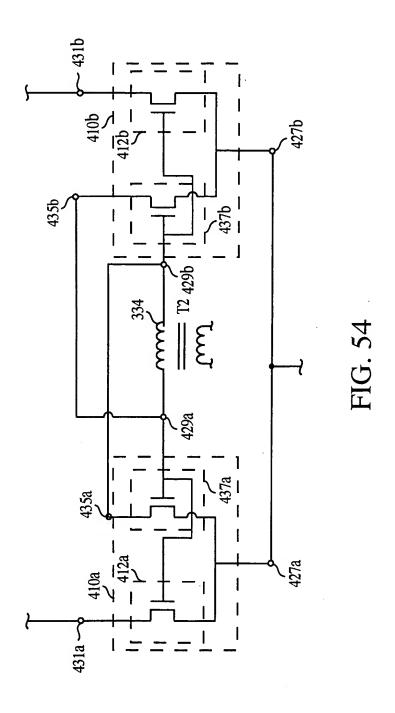












Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

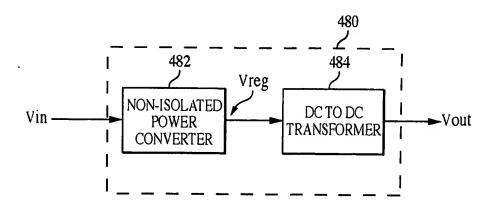


FIG. 55A

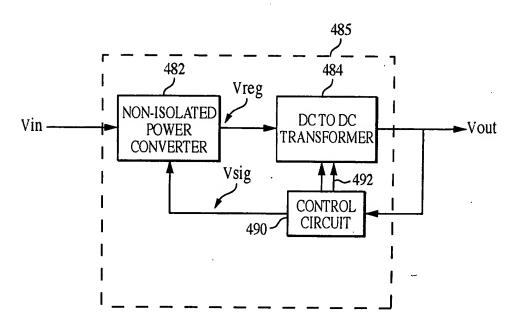


FIG. 55B

Matter No.: 00614-136004 Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

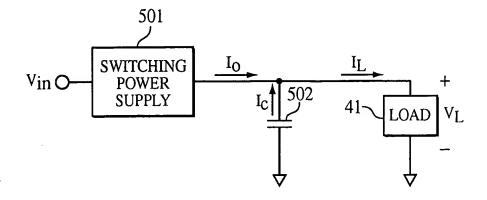


FIG. 56

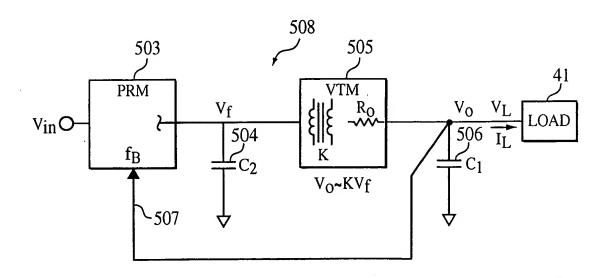


FIG. 58

Applicant(s): Patrizio Vinciarelli

OUTPUT RESISTANCE MODULATION IN POWER

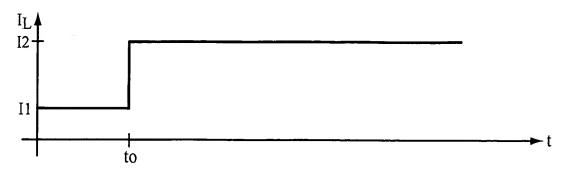


FIG. 57A

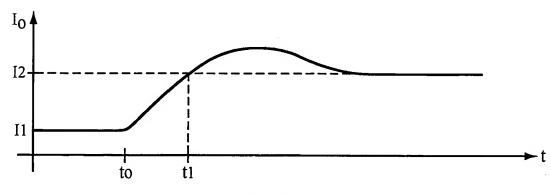


FIG. 57B

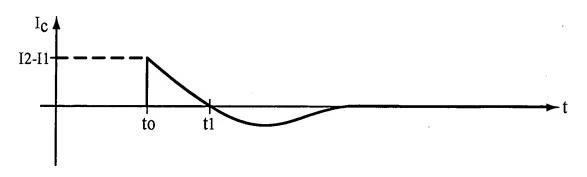


FIG. 57C

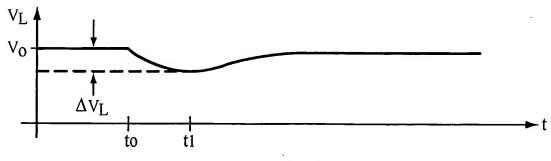


FIG. 57D

OUTPUT RESISTANCE MODULATION IN POWER CONVERTERS

600

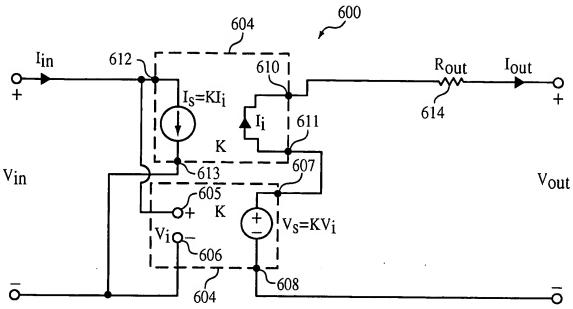


FIG. 59A

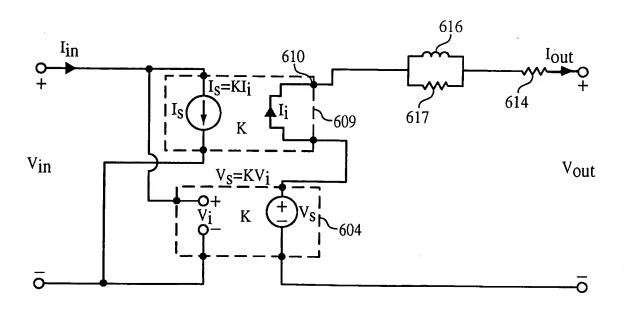


FIG. 59B

